

IMAGE FORMING DEVICE

Publication number: JP6011935 (A)

Publication date: 1994-01-21

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Applicant(s): CANON KK

Classification:

- **international:** G03G15/00; G03G15/01; G03G15/02; G03G15/04; G03G15/043; G03G15/08; G03G15/16; G03G15/00; G03G15/01; G03G15/02; G03G15/04; G03G15/043; G03G15/08; G03G15/16; (IPC1-7): G03G15/00; G03G15/00; G03G15/01; G03G15/02; G03G15/04; G03G15/08; G03G15/16

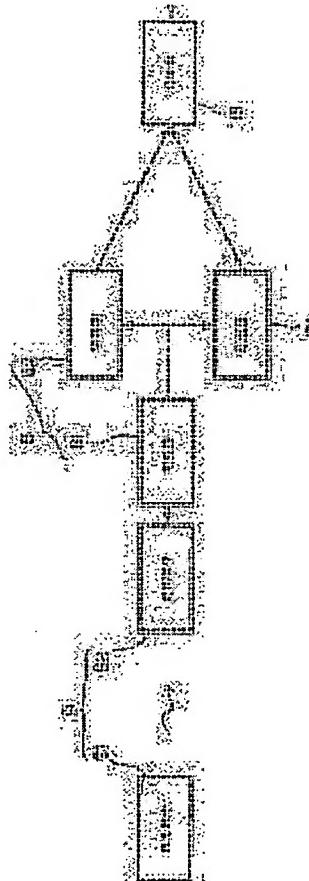
- **European:**

Application number: JP19920193106 19920626

Priority number(s): JP19920193106 19920626

Abstract of JP 6011935 (A)

PURPOSE: To accurately detect density in the whole optical density area using amplifiers for amplifying outputs of a density sensor, and varying the amplification factor of each amplifier when necessary. **CONSTITUTION:** The light emitting element 91 of a density sensor 9 emits light toward a toner image (not shown in Figure) having predetermined gradation. The light reflected at the toner image is received by a light receiving element 92, which in turn outputs a signal proportional to the quantity of the light received. This output is amplified by an amplifier 81 and is further amplified by amplifiers 82, 83. The amplifiers 82, 83 have different amplification factors. A switch 13 selects either of the amplifiers 82, 83 so that an optimum output proportional to the density of the toner image is available.



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